CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2012-13

Date: 07.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements & Constructions of CC Road at Coconut Garden (Ismail Garden) to Mahalakshmi Nagar in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	435 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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W-14

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2012-13 : 07.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements & Constructions of CC Road at Coconut Garden (Ismail Garden) to Mahalakshmi Nagar in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Date of Testing : 07.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	108	5.40	5.40	94.6	90-100
2.36	232	11.60	17.00	83.0	75-100
1.18	514	25.70	42.70	57.3	55-90
600 Micron	435	21.75	64.45	35.6	35-59
300 Micron	506	25.30	89.75	10.3	8-30
150 Micron	202	10.10	99.85	0.2	0-10

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2012-13 : 07.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements & Constructions of CC Road at Coconut Garden (Ismail Garden) to Mahalakshmi Nagar in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Date of Testing : 07.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25600**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1152	4.50	4.50	95.50	95-100
20	14634	57.16	61.66	38.34	30-70
10	6257	24.44	86.11	13.89	10-35
4.75	2680	10.47	96.57	3.43	0-5

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2012-13 08.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West)**, KRIDL, Bangalore.
Name of the work	:	Improvements & Constructions of CC Road at Coconut Garden (Ismail Garden) to Mahalakshmi Nagar in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013
Date of Test	:	08.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	512	548	12.45	O.K	O.K
2	10	0.59	517	551	12.70	O.K	O.K
3	12	0.89	519	554	12.95	O.K	O.K

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2012-13 10.04.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements & Constructions of CC Road at Coconut Garden (Ismail Garden) to Mahalakshmi Nagar in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2013	10.04.2013	8.245	518.5	23.04
2	12.03.2013	10.04.2013	8.357	520.6	23.14
3	12.03.2013	10.04.2013	8.422	515.2	22.90

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14.04.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements & Constructions of CC Road at Coconut Garden (Ismail Garden) to Mahalakshmi Nagar in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2013	14.04.2013	8.258	512.7	22.79
2	16.03.2013	14.04.2013	8.152	505.4	22.46
3	16.03.2013	14.04.2013	8.352	516.1	22.94

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